

In re Application of:  
Goggins and Ueki  
Application No.: 10/084,555  
Filed: February 25, 2002  
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PATENT  
ATTY. DOCKET NO.: JHU1700-1

**AMENDMENT**

In the Specification:

Following the abstract, please insert the attached Sequence Listing with subsequent page numbering thereafter.

Please enter the following replacement of Tables 3A and 3B on pages 53, 54, 55 of the present application:



**TABLE 3A**

**PRIMER SEQUENCE FOR BISULFITE-SEQUENCE**

Clone	Orientation	Sequence	Annealing Temperature	SEQ ID NO:
RARβ	Forward Reverse Sequence	5'-GAGTTGGTGATGTTAGATTAG-3'	56	43
		5'-TTCCCAAAAAATCCCAAATTC-3'		44
		5'-CTCCTTCCAAATAAATACTTAC-3'		45
THBS1	Forward Reverse Sequence	5'-AGAGAGGAGTTTAGATTGG-3'	54	46
		5'-CAAAAAAACTAAAACCTCAAC-3'		47
		Forward primer		
CACNA1G	Forward Reverse Sequence	5'-	55, 53, 51, 49*	48
		TGGATAAAGGATGTTTGGGGTTTG-3'		49
		5'-CCCTCCCCTTACCCCTAAATCC-3'		50
hMLH1	Forward Reverse Sequence	5'-	58	51
		ATTATTTTAGTAGAGGTATATAAG-3'		52
		5'-CCAACCCCACCCCTCAAC-3'		
MINT1	Forward Reverse Sequence	5'-AAGAGAGGGTTGGAGAGTAG-3'	62	53
		5'-		54
		CCCCTAAAAAAAATCAAAAATC-3'		55
MINT2	Forward Reverse Sequence	5'-	60, 58, 56, 54**	56
		YGTTATGATTTTTTTGTTTAGTTAAT-3'		57
		5'-TACACCAACTACCCAACCTACCTC-3'		106
MINT31	Forward Reverse Sequence	5'-	58	58
		TTTATTTATATAATTTTGTGTATGG-3'		59
		5'-CACCCCTCACTTTACTAAAAC-3'		
MINT32	Forward Reverse Sequence	5'-TTTGGGAGGTAAATTYGTTGATT-3'	58, 56, 54, 52***	60
		5'-		61
		ACCRAACAAAAACCTAAAAAAC-3'		
		Forward primer		

\* 55 (5 cycles), 53 (5 cycles), 51 (5 cycles), 49 (26 cycles)

\*\* 60 (3 cycles), 58 (4 cycles), 56 (5 cycles), 54 (26 cycles)

\*\*\* 58 (3 cycles), 56 (4 cycles), 54 (5 cycles), 52 (26 cycles)

**TABLE 3B-PRIMER SEQUENCES FOR MSP**

Clone	Orientation & Methylation		Sequence	Annealing Temperature	SEQ ID NO:
P16	Unmethylated	F	5'-TTATTAGAGGGTGGGGTGGATTGT-3'	60	62
		R	5'-CAACCCCAAACCCACAACCATAA-3'		107
	Methylated	F	5'-TTATTAGAGGGTGGGGCGGATCGC-3'	65	63
		R	5'-GACCCCCGAACCGCGACCCTAA-3'		108
RARβ	Unmethylated	F	5'-AGGATTGGGATGTTGAGAATG-3'	58	64
		R	5'-TTACAAAAAACCTTCCAAATACA-3'		109
	Methylated	F	5'-GGATTGGGATGTCGAGAAC-3'	64	65
		R	5'-TACAAAAAACCTTCCGAATACG-3'		110
CACNA1G	Unmethylated	F	5'-GTTTTTTTTTGGATTTTTGTTTTTTG-3'	60	66
		R	5'-TTTATTCCAACCTCTTCACTTCA-3'		111
	Methylated	F	5'-GTTTTTTCGGGGCGGTTTC-3'	62	67
		R	5'-TTCCGACTTCTTCGCTTCG-3''		112
TIMP-3	Unmethylated	F	5'-	59	68
		R	TTTTGTTTTGTTATTTTTTGTGTTTTGGTTTT		
	Methylated	F	-3	59	69
		R	5'-CCCCCAGAAACCCACCTCA-3'		
			5'-		
			CGTTTCGTTATTTTTTGTGTTTCGGTTTTTC-		113
			3'		
			5'-CCGAAAACCCCGCCTCG-3'		114
THBS1	Unmethylated	F	5'-GTTTGGTTGTTGTTTATTGGTTG-3'	62	70
		R	5'-CCTAAACTCACAACCAACTCA-3'		71
	Methylated	F	5'-TGCGAGCGTTTTTTTAAATGC-3'	62	72
		R	5'-TAAACTCGCAAACCAACTCG-3'		73
HMLH1	Unmethylated	F	5'-TTAATAGGAAGAGTGGATAGTG-3'	56	74
		R	5'-TCTATAAATTACTAAATCTCTTCA-3'		75
	Methylated	F	5'-TTAATAGGAAGAGCGGATAGC-3'	58	76
		R	3'-CTATAAATTACTAAATCTCTTCG-3'		77
E-Cad	Unmethylated	F	5'-TAATTTTAGGTTAGAGGGTTATTGT-3'	53	78
		R	5'-CACAACCAATCAACAACACA-3'		79
	Methylated	F	5'-TTAGGTTAGAGGGTTATCGCGT-3'	57	80
		R	5'-TAACTAAAAATTCACCTACCGAC-3'		81
DAPK	Unmethylated	F	5'-GGAGGATAGTTGGATTGAGTTAATGTT-	60	82
		R	3'		83
	Methylated	F	5'-CAAATCCCTCCCAAACACCAA-3'	60	84
		R	5'-GGATAGTCGGATCGAGTTAACGTC-3'		85
			5'-CCCTCCCAAACGCCGA-3'		
MGMT	Unmethylated	F	5'-	59	86
		R	TTTGTGTTTTGATGTTTGTAGGTTTTTGT-		87
	Methylated	F	3'	59	88
		R	5'-		89
			AACTCCACACTCTTCCAAAAACAAAACA-		
			3'		
			5'-TTTCGACGTTTCGTACCTTTTCGC-3'		
			5'-GCACTCTTCCGAAAACGAAACG-3'		

MINT1	Unmethylated	F	5'-GGGGTTGAGGTTTTTTGTTAGT-3'	64	90
		R	5'-TTCACAACCTCAAATCTACTTCA-3'		91
	Methylated	F	5'-GGGTTGAGGTTTTTTGTTAGC-3'	64	92
		R	5'-CTACTTCGCCTAACCTAACG-3'		93
MINT2	Unmethylated	F	5'-GGTGTTGTAAATGTAAATAATTTG-3'	58	94
		R	5'-AAAAAAAAACACCTAAACTCA-3'		95
	Methylated	F	5'-AATCGAATTTGTCGTCGTTTC-3'	60	96
		R	5'-AAATAAATAAATAAAAAAAAAACGCG-3'		97
MINT31	Unmethylated	F	5'-GAATTGAGATGATTTTAATTTTTTGT-3'	64	98
		R	5'-CTAAAACCATCACCCCTAAACA-3'		99
	Methylated	F	5'-TTGAGACGATTTTAATTTTTTGC-3'	62	100
		R	5'-AAAACCATCACCCCTAAACG-3'		101
MINT32	Unmethylated	F	5'-GAGTGGTTAGAGGAATTTAGGT-3'	62	102
		R	5'-CTAAAAAAAAACAAACAAACATCCA-3'		103
	Methylated	F	5'-GTGGTTAGAGGAATTTAGGC-3'	64	104
		R	5'-AAAACGAACGAAACGTCCG-3'		105